Help with RasterLayerExport::Extent

Posted by Scott Davis - 2008/06/20 09:58

Any help would be greatly appreciated. I've been staring at this code for a while and can't figure out what's wrong.

I'm trying to export a raster layer as a .tif file clipped to the extent of the dataframe. When I run the code I don't get any error messages, but the .tif file that it starts to generate grows to well over 1 gig and doesn't show any sign of stopping. When I export the data through ArcMap (right-click on raster layer and choose Data -> Export Data...) on the same extent, the resulting file is only a few megs. This makes me think that my code is trying to export the full extent of the layer instead of clipping it to the current visible extent. Any ideas on what I'm doing wrong?

Thanks, in advance.

Scott

P.S. "Setup" gets run with the OpenDocument event and "ExportToTif" gets run with a UI button.

Option Explicit

Private pAV As IActiveView
Private pRLExport As IRasterLayerExport
Private pWorkspace As IRasterWorkspace

Public Sub Setup()
' get layer

Dim pMyDos As IMyE

Dim pMxDoc As IMxDocument Set pMxDoc = ThisDocument

Dim pMap As IMap Set pMap = pMxDoc.FocusMap Set pAV = pMap 'QI

Dim pLayer As ILayer Set pLayer = FindLayer("Aerials", pMap)

Dim pRasterLayer As IRasterLayer Set pRasterLayer = pLayer

' get raster layer export coclass Set pRLExport = New RasterLayerExport

Set pRLExport.RasterLayer = pRasterLayer

' get workspace Dim pWsFact As IWorkspaceFactory Set pWsFact = New RasterWorkspaceFactory Set pWorkspace = pWsFact.OpenFromFile("C:\Temp", 0)

End Sub

Public Sub ExportToTif()

' set extent pRLExport.Extent = pAV.Extent.Envelope

' export Dim pRDataset As IRasterDataset Set pRDataset = New RasterDataset

Set pRDataset = pRLExport.Export(pWorkspace, "testname.tif", "TIFF") End Sub

Private Function FindLayer(strSearch As String, pMap As IMap) As ILayer

```
Dim intPosition As Integer
  Dim strName As String
  Dim i As Integer
  Dim bFound As Boolean
  'loop through all layers
  For i = 0 To pMap.LayerCount - 1
    strName = pMap.Layer(i).Name
    If (strName = strSearch) Then
       intPosition = i
       bFound = True
    End If
  Next i
  'check to see if layer was found
  If Not bFound = True Then
    MsgBox strSearch & " layer not found.", vbCritical, "Error"
    Set FindLayer = Nothing
    Exit Function
  End If
  'get layer
  Set FindLayer = pMap.Layer(intPosition)
End Function
Re:Help with RasterLayerExport::Extent
Posted by Bert Granberg - 2008/06/23 12:51
Scott,
Did you try setting .spatial reference property or using the .setsize method to control for the output pizel size? Just a few
guesses...not sure if they are going anywhere.
Bert
Re:Help with RasterLayerExport::Extent
```

Posted by Scott Davis - 2008/06/23 13:54

I've tried both of the suggestions with no luck. Thanks for the guesses, Bert. For some reason the extent is not being set properly.

Re:Help with RasterLayerExport::Extent

Posted by Bert Granberg - 2008/06/23 14:07

Have you tried setting pAV within the scope of the ExportToTif procedure??

Re:Help with RasterLayerExport::Extent

Posted by Scott Davis - 2008/06/23 15:37

Yes, I had previously tried it as one procedure and it didn't work. I just tried it again just to be sure with no luck.